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(71)Applicant : **HITACHI LTD**

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(72)Inventor : **FUJII YOSHIO
TOZAKI MASAKO**

(54) ANALYSIS OF AMINO ACID

(57)Abstract:

PURPOSE: To analyse certainly and rapidly amino acids in living body liquid, by setting the Li⁺ concentration of a buffer solution which is used to separate asparagine, glutamic acid, and glutamine from each other, equal to or lower than a specified level.

CONSTITUTION: In order that, in analysis of about forty amino acids as components in living body liquid, asparagine, glutamic acid, and glutamine as three components, which are usually most difficult to separate from each other, may be well separated, the first buffer solution whose Li⁺ concentration is set at 0.13N or lower, is flowed through an amino acid analyser, and thereby the separating gaps among the said three components are extended so that sure analysis may be achieved. In this case, although the flow rate of the first buffer solution is controlled slower than usual, the overall eluting rate for the whole amino acid is promoted by raising the flow rates of the second and further buffer solutions. Thus the analysis is achieved more rapidly than usual without lowering separating rates of other amino acids. For example, the net analysing time is reduced to about 2.0hr by 25% less than usual.

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